David Moran

From: Steve Skolnik <sdskolnik@gmail.com>
Sent: Wednesday, February 04, 2015 4:11 PM
To: David Moran
Cc: Michael McLaughlin; Cindy Murray
Subject: Re: MEA Solar Canopy Grant

David, good afternoon and thank you for your note.

Typical outside dimensions for commercial-grade solar PV panels are 1m x 2m for each panel, with an electricity generating capacity in the 0.25kW range each. Extrapolating these numbers, a 75kW array would require (75x4) 300 panels, with a total surface area of 600 square meters. One square meter = 10.76 square feet, so in English measure the 75kW array would cover about 6,458 sq.ft.

In terms of a parking area, if we say a parking space is about 10-ft. x 20-ft., or 200 sq.ft., then the 75kW canopy might cover (6458/200) 32 parking spaces. The structures are typically designed so as not to require loss of any parking spaces in an existing lot.

Often, parking canopy shade structures are constructed in rows so as not to impede use of driving lanes in parking lots; so the 75kW array could be configured as a rectangle, to cover a parking area 16 spaces wide by 2 spaces deep.

I trust this is the information you seek; if you need further detail, do not hesitate to ask.

Regretfully, I am out of the country next week and unable to attend Monday evening's City Council meeting. I will, however, ask to have other member(s) of the Green Team's solar task group in attendance, to discuss and answer questions that may arise.

Best regards,

Steve Skolnik
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On 2/4/2015 3:20 PM, David Moran wrote:

> Steve,
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> Are you able to attend Monday's City Council meeting to discuss this grant opportunity with Council?
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> I realize every situation is unique but can you estimate size of 75kW canopy? (i.e., how many spaces would this canopy cover?)
>
> David
>
> David E. Moran